

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application of:

Inventor(s) : Giovanni SENI  
Filed : 6/26/2003  
Serial No. : 10/606,423  
Confirmation No. : 6310  
Group Art Unit : 2629  
Examiner : BODDIE, William  
Docket Number : CML00362H  
Title : METHOD AND STRUCTURE FOR MESSAGE AND NOTE  
COMPOSITION ON SMALL SCREEN DEVICES

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Filed via EFS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL RESPONSE TO OFFICE ACTION**

Sir:

**INTRODUCTORY COMMENTS:**

Further to the response filed yesterday, June 5, 2008, responsive to the non-final Office Action dated February 5, 2008, Applicant herewith files a supplemental response. This supplemental response is being made to make the three-page invention disclosure, referenced in both the response and the declaration filed June 5, 2008, of record to the PTO; it supports Applicant's assertion of conception coupled with diligence until the June 26, 2003 filing date of the instant application. Though referenced, this document was inadvertently omitted from the paperwork filed with the response.

If further matters remain to be resolved, the undersigned respectfully requests the courtesy of an interview and may be reached at the telephone number below.

Respectfully submitted,

/Renee' Michelle Leveque/  
Renee' Michelle Leveque  
Registration No. 36,193  
Leveque Intellectual Property Law, P.C.  
221 East Church Street  
Frederick, MD 21701  
301-668-3073  
Date: June 6, 2008

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[CML00362H \(13199\)](#)  
[CML00325D \(12820\)](#)  
[CML00473T \(13755\)](#)  
[CML00327T \(12929\)](#)  
[CML00479J \(13643\)](#)

## Disclosure CML00362H (13199)

**ID:** CML00362H (13199)  
**Title:** **Fluent ink-text message composition on small devices**  
**Innovators:** [Giovanni Seni](#)  
**Status:** Awaiting Filing   
**Disposition:** Pursue   
**Submitted Date:** Apr 17, 2002  
**Review Date:** Jun 20, 2002 3:50 PM  
**Sector:** CORP  
**Patent Committee:** [HDT - Advanced Consumer Systems Lab - Human Interface Labs](#)  
**Business Unit:** [Motorola Labs - W Davis](#)  
**Organization:** CORP, CORP TECH, DIGITALDNA, LABS,  
**Department:** AC547  
**Submit Country:** USA

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## WARNING MESSAGES

- An Export Control Classification Number (ECCN) must be specified in order to determine the viewing privileges of users associated with this disclosure.

## WORKFLOW

First Innovator	<a href="#">Giovanni Seni</a>	<a href="#">Info Verified 04/17/2002</a>
Witness	<a href="#">Jin Guo</a>	Acknowledged 04/17/2002, Notebook Signed
Witness	<a href="#">Carlos McEvilly</a>	Acknowledged 04/18/2002, Notebook Signed
Manager	<a href="#">Sreeram Balakrishnan</a>	Acknowledged 04/22/2002
Technical Reviewer	<a href="#">Kenneth Douros</a>	No Action Required

## REVIEW INFORMATION

[Technical ReviewerKenneth Douros](#)  
[Grading Results](#)

## DOCUMENTS

[FluentInkTextMsgComp.doc](#) Figures 267.5 Kb

## QUESTIONS

**Name of Innovation or Engineering Development?**  
Fluent ink-text message composition on small devices

**What is the problem(s) to be resolved by or need(s) for your idea?**

[REDACTED]

Digital ink does not always need to be recognized in order for it to be useful. Two daily life applications where users take full advantage of the range of graphical representations that are possible with a pen are messaging, as when we leave someone a post-it note with a handwritten message, and note taking, as when we handwrite notes during a meeting. Furthermore, two-way wireless transmission of these digital ink messages, or notes, can offer a compelling new way to communicate. Users can write with a stylus on their portable computing device's screen to compose a message in their own handwriting. Such an ink message can then be addressed and delivered to other mobile users, email users, or fax machines. However, the small size of the screen on mobile devices limits the writing experience to at most a few words at a time, which prevents continuous uninterrupted longhand.

**What patents or publications describe your idea and why don't they resolve the problem(s) or fulfill the need(s)?**

Most note taking applications on mobile devices allow the user to write anywhere on the screen, including on top of any displayed application and system elements (see Figures 1,2,3 in attachment). For small screen sized devices such as of PDAs, these write-anywhere user interfaces allow users to write two or three lines at a time, with at most two or three words each. In order to make more writing space the following options are currently available: (i) user manually scrolls up the writing area (see Figure 1); (ii) system automatically scrolls up the writing area when ink traces are detected at the bottom of the screen (see Figure 2); (iii) ink traces are converted into a scaled down representation that clears part of the writing area (see Figure 3). In all cases, the note taking process is interrupted - i.e., the user has to pause writing to allow scrolling to take place. Write-anywhere interfaces are also problematic because it is difficult to differentiate whether the stylus is acting as a pointer, for clicking on application icons and the like, or an inking instrument for writing. Another problem with a write-anywhere user interface is that, by moving their hands all over the screen to write, users are prone to touching the screen with their fingers as well as the stylus. Simultaneous pressure from the stylus and a carelessly positioned pinky finger can cause the device to misread the stylus position - the device could average the location of the pen and the finger.

**What is the idea you are disclosing?**

A method of entering arbitrary long streams of handwritten ink on small palm-size devices without interruption, i.e.: without requiring to stop to make more writing space, without creating the conflicts of write-anywhere interfaces, and without the intervention of any handwriting recognition process while writing. In this way a fully fluent message/note composition experience - i.e., done effortlessly smooth and rapid, is enabled.

**How does this idea resolve the problem(s) or fulfill the need(s) in a new way?**

We combine the power of the Treadmill UI with the simplicity of unrecognized ink (see Figure 4). By virtue of each ink trace trailing off and being removed from the input area, the user is presented with substantially unlimited writing space in the normally space-constrained device. When a pen trace falls out of the visible window area, a core-height and word gap estimation procedure is invoked to process it; these parameters are used to generate a scaled version of the ink for display as ink-text. Users can write big, without interruption, in the inking area, and read small in the editing area. An ASCII version of the ink text can be requested afterwards if desired.

**How or where will this idea be used (e.g. what process or product will it be applied to)?**

Pen-enabled phones such as Taichi & EzX. Form filling solutions such as Citation.

**Do you plan to disclose your idea outside of Motorola (e.g. conference, publication, customer meeting, product offering, etc.)?**

**Is your idea known or has it been disclosed outside of Motorola without a duty of confidence (e.g., non-disclosure agreement, joint development agreement, etc.)?**

NO

Has a product incorporating your idea been sold, offered for sale, placed in production, qualification, sampled, described in any publication (including Motorola promotional literature), marketed, shipped to anyone outside of Motorola (customer or distributor), or placed into inventory?

NO

What is the earliest verifiable date that you communicated your idea to an individual that is NOT an innovator (e.g., the date a non-innovator witness signed your engineering notebook)?

Was your idea created or developed through work performed with a consortium, alliance, government contract, university, or joint venture?

NO

Please specify the Export Control Classification Number(s) (ECCN) to which this disclosure pertains

Unknown

#### KEY TECHNOLOGIES

CORP - H7 Human Experience

PCS - 05A User Interface & Accessibility

#### INNOVATORS

Giovanni Seni

The address and personal information for this innovator should be treated as confidential.

Commerce ID:	10124342	Core ID:	FGS022
Phone:	650-318-3203	Fax:	650-318-3302
Email:	G.Seni@motorola.com		
Department:	AC547	Location:	CA69
Mail Drop:	CA69	Manager:	<u>Sreeram</u> <u>Balakrishnan</u>
Sector:	CORP	Business Unit:	Motorola Labs - W Davis
SSN:	051780058	Citizenship:	Italy
Residential Address:	113 Concord Circle Mountain View, CA 94040 USA	Mailing Address:	113 Concord Circle Mountain View, CA 94040 USA

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